

Cell In Action Test Review

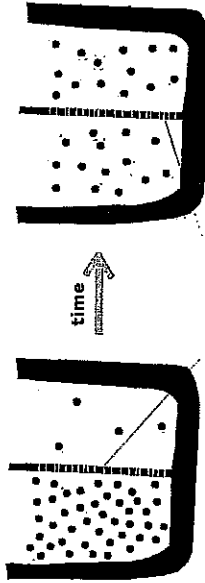
Define Diffusion

When ~~any~~ ^{any} particles travel from a ~~high concentration to a low concentration~~ ^{high concentration to a low concentration}

Define Osmosis

When water particles travel across a semi permeable membrane from a high concentration to a low concentration.

What is happening in the image below? EXPLAIN using (particles, diffuse, semi-permeable, water, osmosis, equilibrium, high concentration, low concentration)



Particles of water are diffusing across the semi permeable membrane from a high concentration to a low concentration until they reach equilibrium.

Why is osmosis important to cells?

Because our body is 80% water and our cells need water to perform necessary functions.

What is the equation for cellular respiration?

Circle the Products and underline the Reactants.



Cellular respiration allows an organism to get energy from food

Oxygen is a product of photosynthesis

Energy that a cell can use is in the form of ATP

Photosynthesis occurs in the chloroplasts of the plant's cells.

Cellular respiration occurs in the mitochondria of any eukaryotic cells.

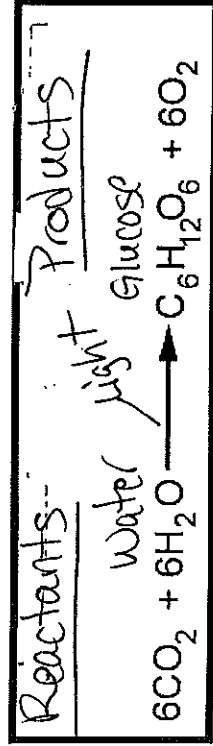
Students placed a raw egg without its shell into a highly concentrated solution of sugar. What is MOST LIKELY to occur? Defend your answer.

The egg will shrink because the concentration of water will be higher inside the egg. As osmosis happens the water will go out of the cell into the sugar solution.

Why would it be better to drink a carbonated beverage rather than drinking ocean water while trapped at sea? Defend your answer

Because salt water will cause all of your cells to release water. Soda is mostly H₂O so it will not affect all of your cells.

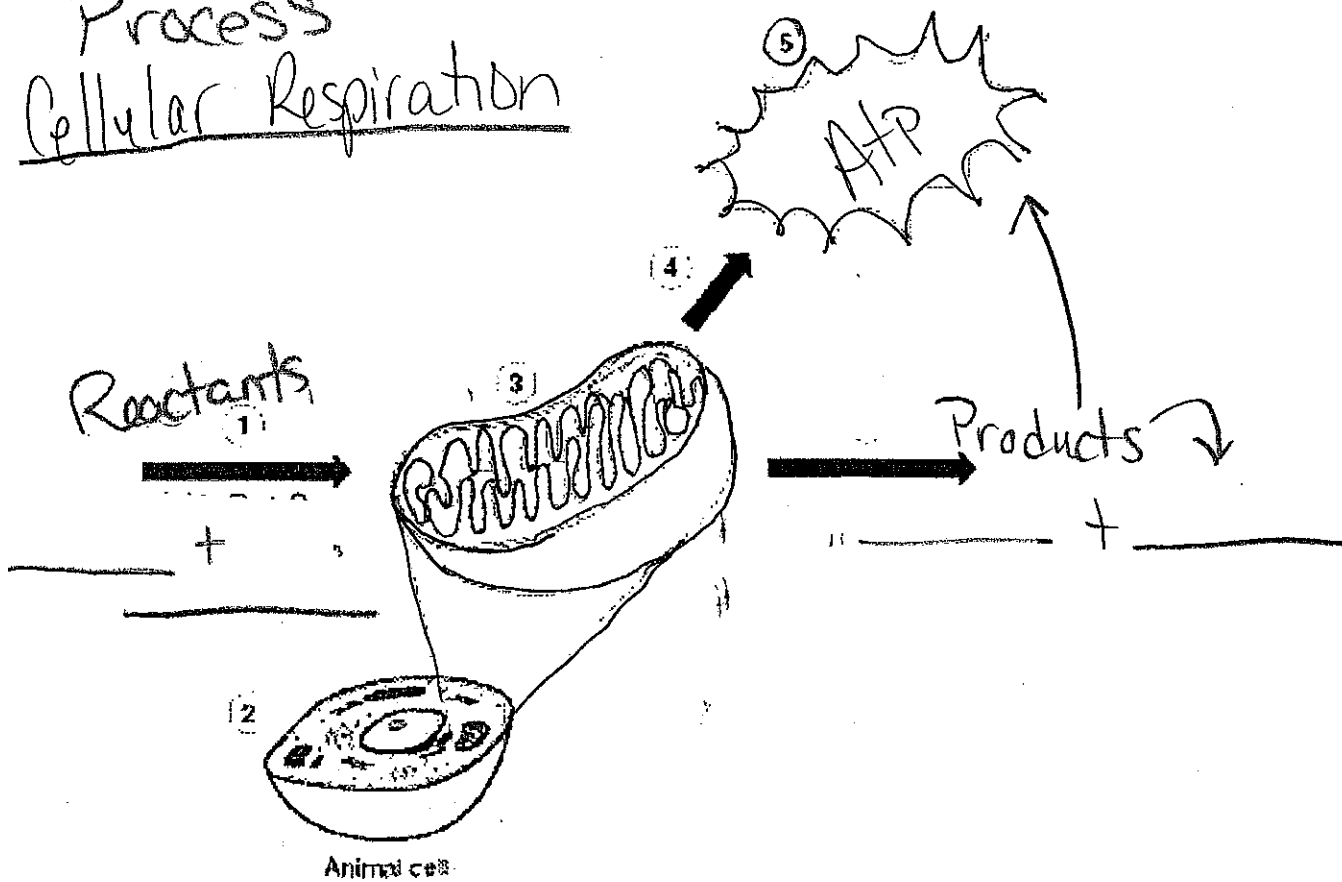
The process below is known as Photosynthesis. Label each reactant and product. Be sure to include Sunlight!



Carbon Dioxide

Oxygen

Process Cellular Respiration



Fill in the blanks on this figure.

Define photosynthesis

What is the equation for photosynthesis?
Circle the Products and underline the Reactants.